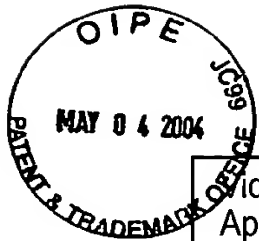


FIG. 1



Video Source Application		Video Hardware Interface
Generate C_n	$\xrightarrow{C_n, Ck_{sv}, C_{mode}}$	Generate $K_u'(Ck_{sv}, Dk_{sv})$ Generate $K_p'(K_u', C_n, Bk_{sv})$
Generate $K_u(Ck_{sv}, Dk_{sv})$ Generate $K_p(K_u, C_n, Bk_{sv})$	$\xleftarrow{S', Bk_{sv}, Dk_{sv}}$	Generate $S' = \text{status} \parallel K_p'$
Determine if $K_p = K_p'$		

FIG. 2A

Video Source Application		Video Hardware Interface
Generate C_n	$\xrightarrow{C_n, Ck_{sv}, C_{mode}}$	Generate $K_u'(Ck_{sv}, Dk_{sv})$ Generate $K_e'(K_u', C_n)$
Generate $K_u(Ck_{sv}, Dk_{sv})$ Generate $K_e(K_u, C_n)$	$\xleftarrow{M', Dk_{sv}}$	$M' = K_e' \text{ XOR } M_0'$
$M_0' = K_e \text{ XOR } M'$		

FIG. 2B



Video Source Application	Video Hardware Interface
	$K_U' = \Sigma \text{Dkeys over } Ck_{sv}$ $K_1' = \text{OneWay-A } (K_U', \text{LSB40 } (C_n))$ $K_2' = \text{OneWay-A } (K_1', Bk_{sv})$ $K_p' = \text{OneWay-A } (K_2', \text{status} \text{MSB24 } (C_n))$
$K_U = \Sigma \text{Ckeys over } Dk_{sv}$ $K_1 = \text{OneWay-A } (K_U, \text{LSB40 } (C_n))$ $K_2 = \text{OneWay-A } (K_1, Bk_{sv})$ $K_p = \text{OneWay-A } (K_2, \text{status} \text{MSB24 } (C_n))$	

FIG. 3A

Video Source Application	Video Hardware Interface
	$K_U' = \Sigma \text{Dkeys over } Ck_{sv}$ $K_4' = \text{OneWay-B } (K_U', \text{LSB40 } (C_n))$ $K_e' = \text{OneWay-B } (K_4', \text{MSB24 } (C_n))$
$K_U = \Sigma \text{Ckeys over } Dk_{sv}$ $K_4 = \text{OneWay-B } (K_U, \text{LSB40 } (C_n))$ $K_e = \text{OneWay-B } (K_4, \text{MSB24 } (C_n))$	

FIG. 3B

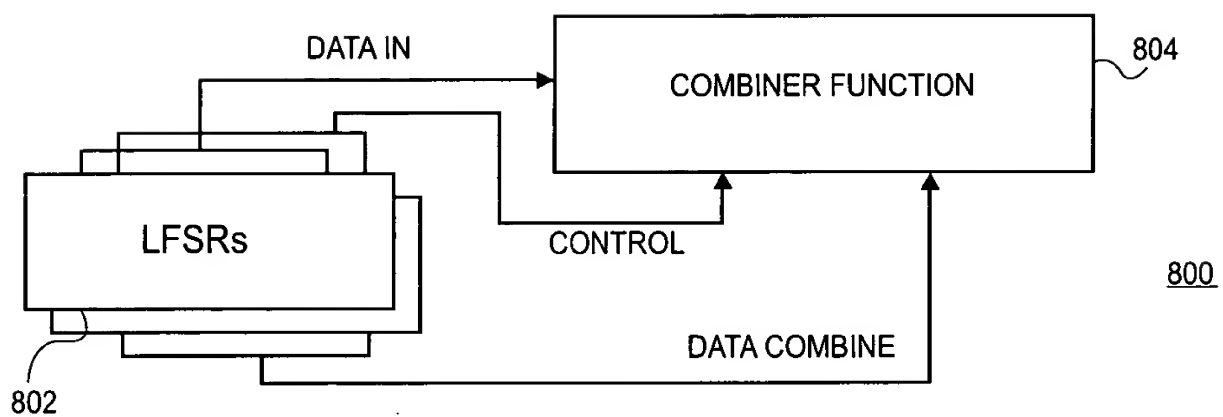


FIG. 4A

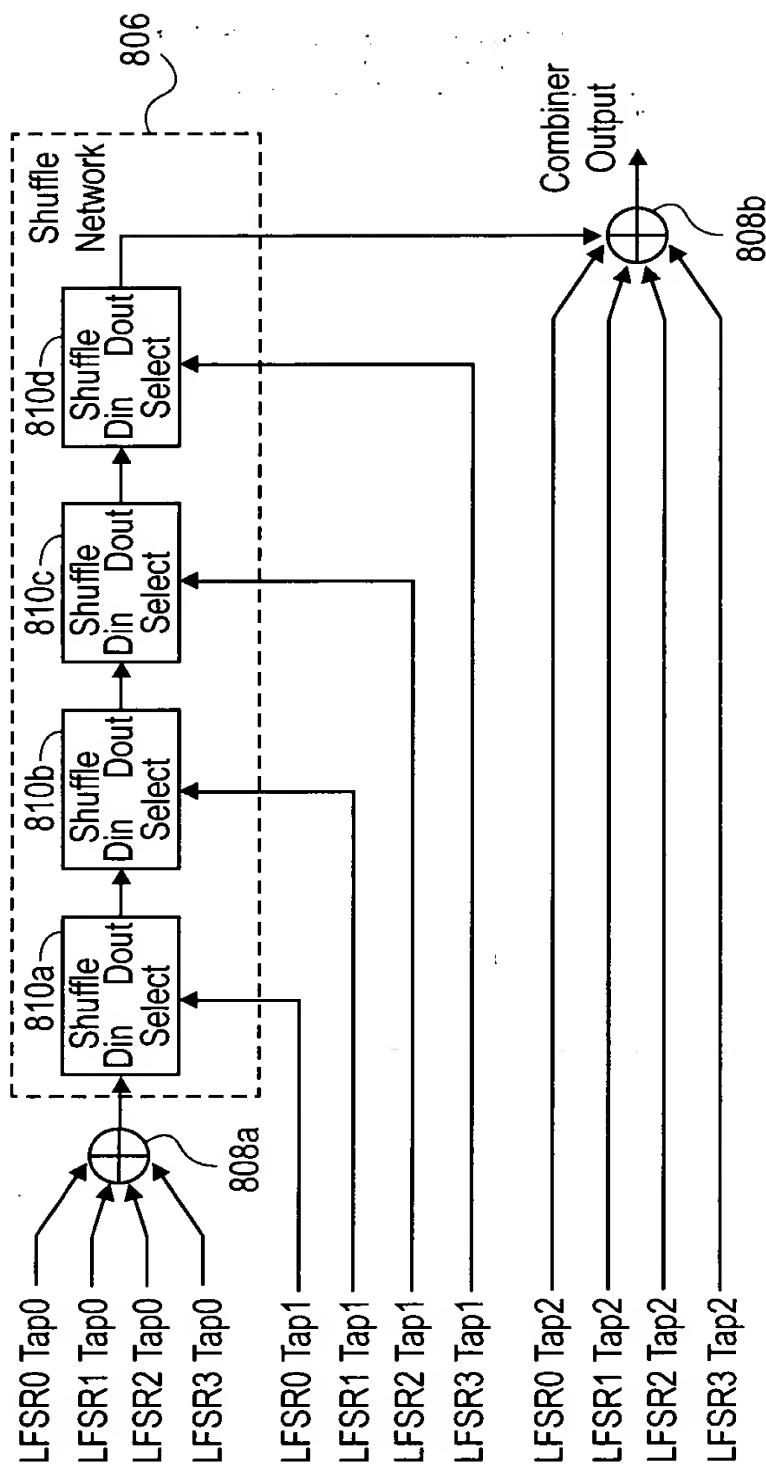


FIG. 4B

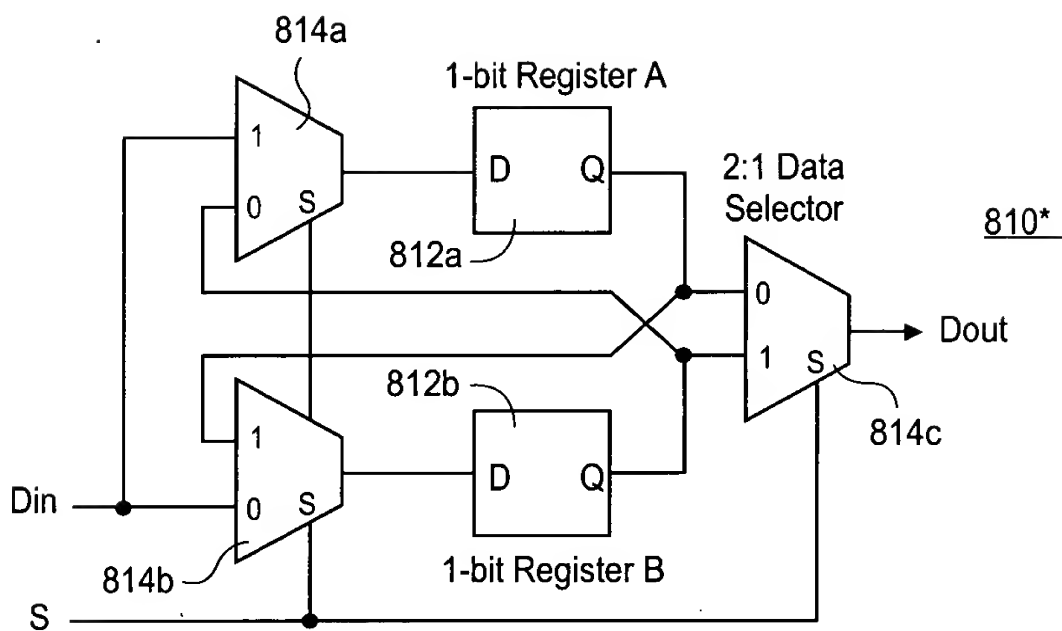


FIG. 4C